

Algebra 2  
Review 2.2-2.3

Name:

Please always show your work.

When finding slope, use the formula:  $m = \frac{y_2 - y_1}{x_2 - x_1}$

A.) Find the slope of the line passing through the given points. Then tell whether the direction of the line is up to the right, down to the right, vertical or horizontal.

1.)  $(1, -4), (2, 6)$

2.)  $(-7, 4), (-7, 6)$

3.)  $(5, 3), (9, 3)$

4.)  $(-5, 5), (5, -5)$

B.) Tell which line is steeper. Please show all work and explain your answer.

5.) line 1:  $(-5, 0), (3, 4)$   
line 2:  $(0, 4), (1, 6)$

6.) line 1:  $(5, 2), (3, 12)$   
line 2:  $(2, -2), (-2, 7)$

C.) Tell whether the lines are parallel, perpendicular or neither. Explain your answer. Show your work.

7.) line 1:  $(-1, 9), (-6, -6)$   
line 2:  $(-7, -23), (0, -2)$

8.) line 1:  $(3, 6), (2, -1)$   
line 2:  $(-1, 2), (6, 1)$

9.) line 1:  $(2, -2), (-2, 7)$   
line 2:  $(4, -5), (5, 1)$

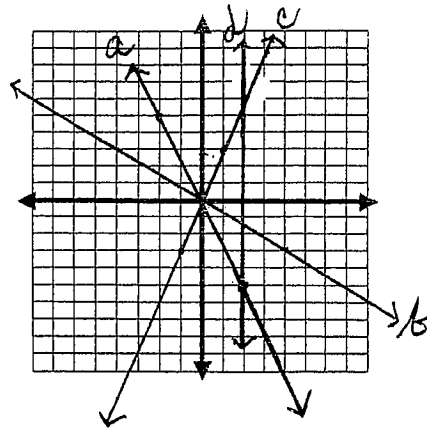
D.) Match the given slopes with the given lines.

10.)  $-\frac{3}{4}$

11.) undefined

12.)  $-\frac{5}{2}$

13.) 3



E.) Graph the equation using the slope and y-intercept. Use the graph paper provided.

14.)  $y = 2x - 3$

15.)  $y = 1$

16.)  $y = -\frac{5}{2}x + 1$

17.)  $y = -3x$

18.)  $x = -2$

19.)  $y = x - 1$

F.) Write each equation in slope-intercept form. Please show all work.

20.)  $2x - 3y = -12$

21.)  $5x + 10y = 30$

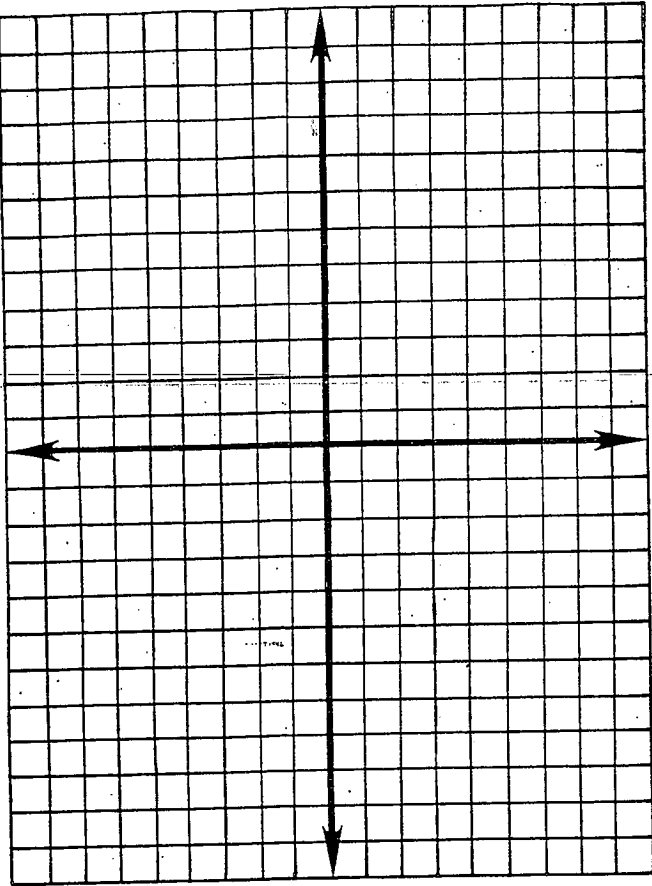
22.)  $x + 4 = 0$

23.)  $10x - 12y = -4$

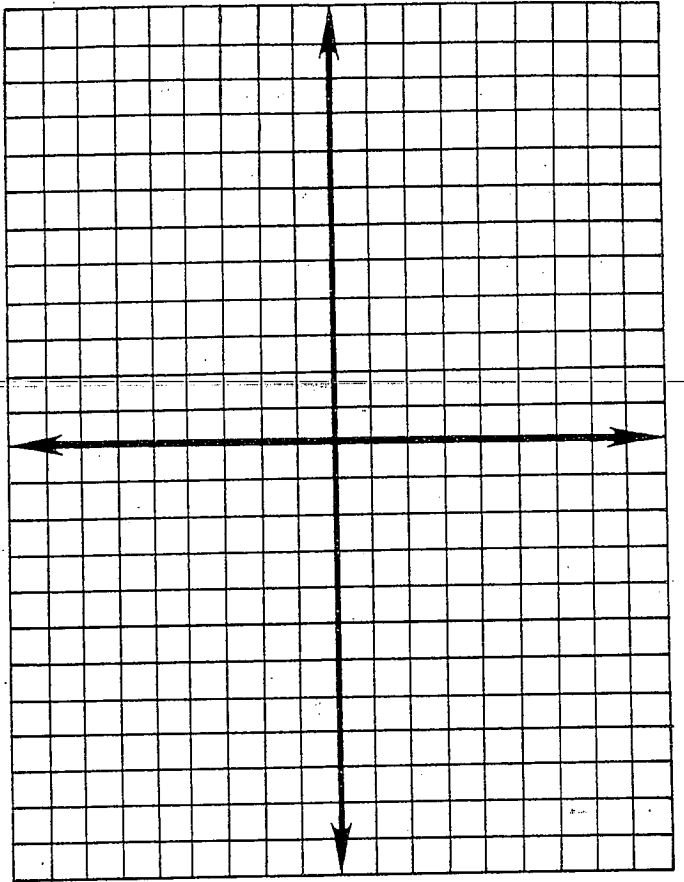
24.)  $3x - y = 3$

25.)  $y + 3 = 0$

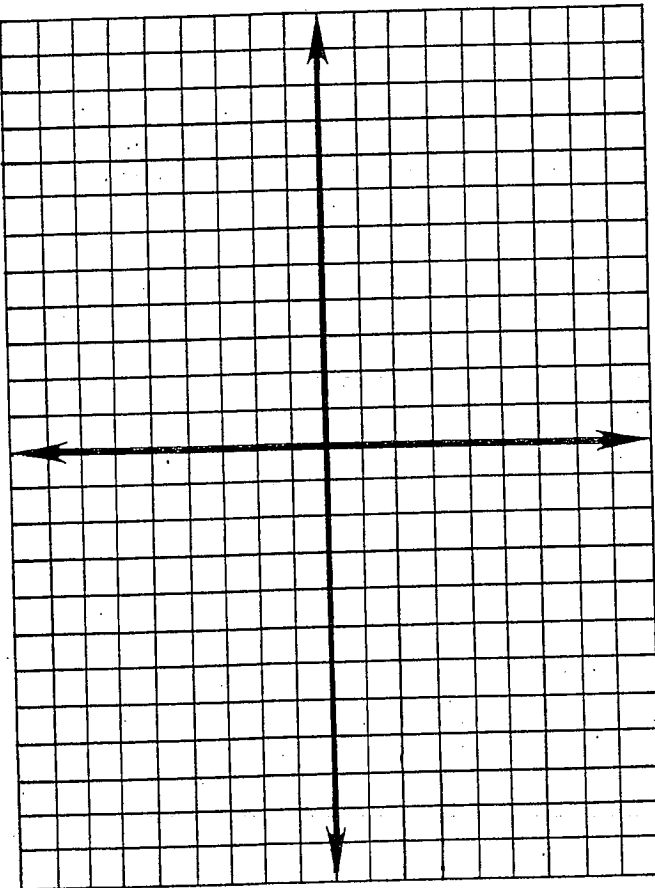
1.



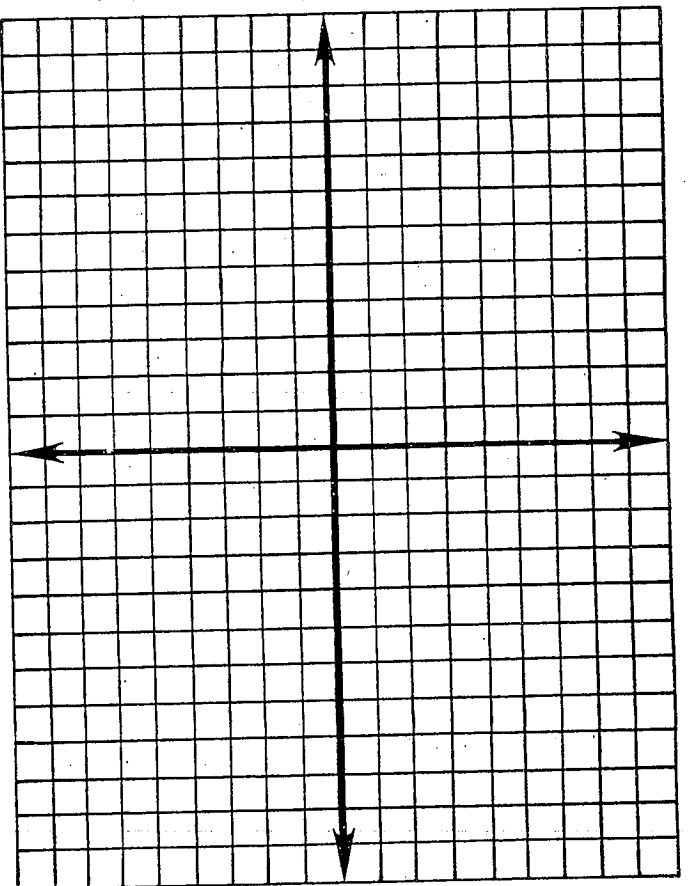
2.



3.

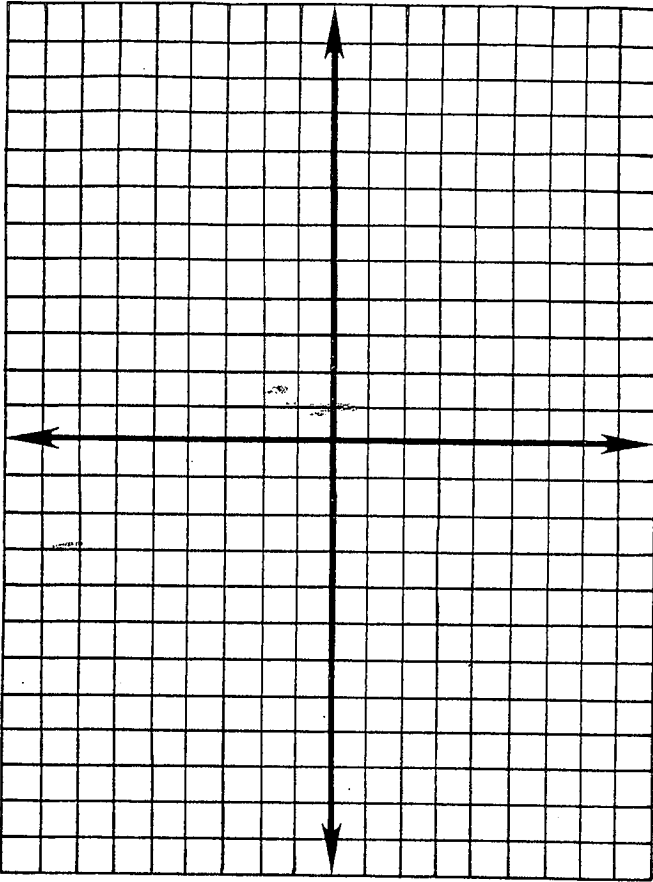


4.

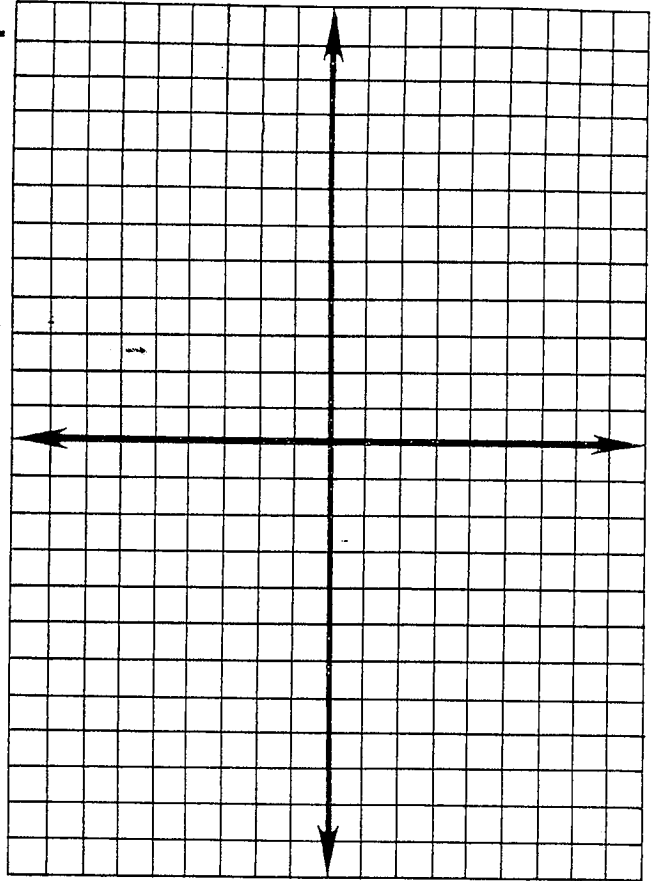


NAME:

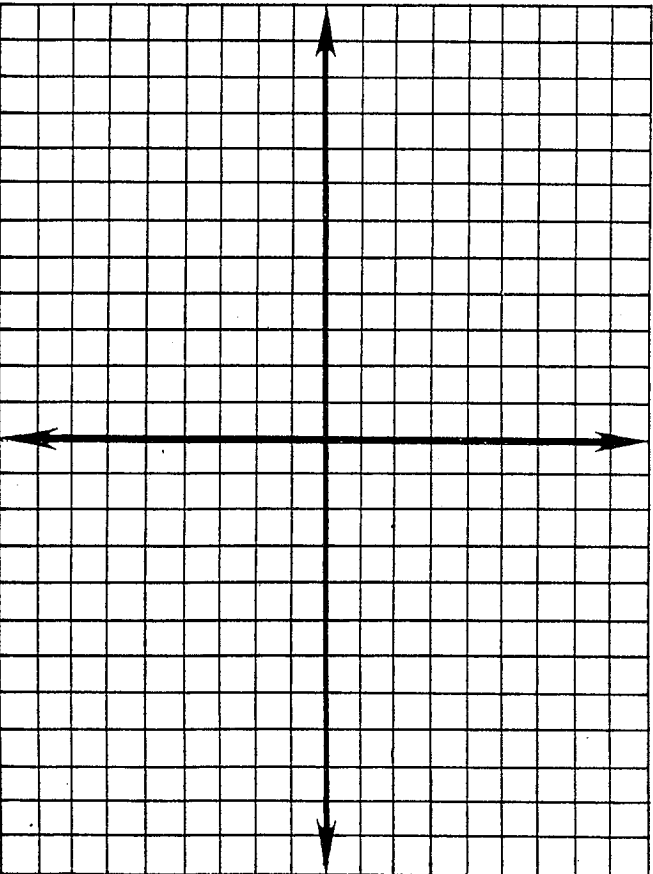
1.



2.



3.



4.

